### DEGREE CHECKLIST 2021-2022

**BACHELOR OF SCIENCE (BSc) COMPUTER SCIENCE**  
Honours Major

<table>
<thead>
<tr>
<th>NAME</th>
<th>STUDENT #</th>
</tr>
</thead>
</table>

**Students are strongly advised to refer to online Academic Calendars before enrolling into courses: [http://calendars.registrar.yorku.ca/](http://calendars.registrar.yorku.ca/)**

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS EARNED</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 1001 3.00</td>
<td>Research Directions in Computing</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1012 3.00</td>
<td>Net-Centric Introduction to Computing</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1015 3.00</td>
<td>Introduction to Computer Science and Programming</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1019 3.00</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1022 3.00</td>
<td>Programming for Mobile Computing</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 1300 3.00</td>
<td>Differential Calculus with Applications</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 1310 3.00</td>
<td>Integral Calculus with Applications</td>
<td></td>
</tr>
</tbody>
</table>

**First Year Courses**

**Foundational science:**
- Six credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1000 3.00, SC/CHEM 1001 3.00, SC/PHYS 1011 3.00, SC/PHYS 1012 3.00, SC/PHYS 1013 3.00, SC/PHYS 1411 3.00, SC/PHYS 1412 3.00, SC/PHYS 1410 6.00, SC/PHYS 1421 3.00, SC/PHYS 1422 3.00, SC/PHYS 1420 6.00

**Second Year Courses**

- SC/MATH 1090 3.00: Introduction to Logic for Computer Science
- SC/MATH 2030 3.00: Elementary Probability
- LE/EECS 2001 3.00: Introduction to the Theory of Computation
- LE/EECS 2030 3.00: Advanced Object-Oriented Programming
- LE/EECS 2011 3.00: Fundamentals of Data Structures
- LE/EECS 2021 4.00: Computer Organization
- LE/EECS 2031 3.00: Software Tools

**General Education and/or Science Breadth**  
See sections “A” and “C” on page 2

**Notes**

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: [http://calendars.registrar.yorku.ca/](http://calendars.registrar.yorku.ca/)

---

**BSc Honours, Computer Science**  
Page 1 of 2
## Third Year Courses

- **LE/EECS 3000 3.00**
  - Professional Practice in Computing
- **LE/EECS 3101 3.00**
  - Design and Analysis of Algorithms
- **LE/EECS 3311 3.00**
  - Software Design

### At least 3 credits

- **LE/EECS 3215 4.00, LE/EECS 3221 3.00**

### At least 3 credits

- **LE/EECS 3401 3.00, LE/EECS 3402 3.00, LE/EECS 3461 3.00**

### Additional elective credits including

- 12 credits outside of EECS, STATS, MATH, and ITEC
- 15 credits at the 3000-level or higher

## Fourth Year Courses

### At least 12 credits

- from computer science courses at the 4000-level, for an overall total of at least 53 credits from computer science courses.

### Completion of remaining

- credits outside of EECS, STATS, MATH, and ITEC
- additional elective credits, as required, for a total of 120 credits

### A. General Education Requirement:

- non-science requirement: 12 credits from the approved list of courses and subject areas in your Academic Calendar;
- computer science: satisfied within the core requirements;
- science: satisfied by the BIOL, CHEM, or PHYS labs as stated on your degree checklist.

### B. Major Requirements:

- As stated on your degree checklist.

### C. Science Breadth:

- 6 credits at any level are required in approved non-EECS science disciplines (SC/**** + HH/PSYC + HH/KINE)

### D. Upper Level Requirement:

- In addition to the upper year courses specified in the checklist, 15 credits at the 3000-level or higher are required.

### E. Additional elective credits, as required, for an overall total of 120 credits.

### TOTA CGPA (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours BSc degree)

- credits outside of EECS, STATS, MATH, and ITEC
- credits at the 3000-level or higher
- additional elective credits, as required, for a total of 120 credits

### EECS GPA Prerequisite:

- Most 2000-, 3000-, and 4000-level EECS courses require a cumulative GPA of 4.5 or better over all 4000 level EECS courses in addition to other course-specific prerequisites. Note: "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to SC/MATH 1019 3.00).

### Participation in the Co-op or internship option is highly recommended for students, but is not a degree requirement.

### Notes